

UNITED STATES PATENT AND TRADEMARK OFFICE



PRUCATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY-DOGKET NO.	CONFIRMATION NO
09/915,489	07/26/2001	Crystal M. Cunanan	ECV-5510	6350
759	90 09/23/2003			
Edwards Lifesciences LLC			EXAMINER	
Law Dept. One Edwards Way			LANKFORD JR, LEON B	
Irvine, CA 92614			ART UNIT	PAPER NUMBER
			1651	
			DATE MAILED: 09/23/2003	$1 \cap$

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	09/915,489	CUNANAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	L Blaine Lankford	1651				
· The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 20 J	<u>une 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>2-23 and 42</u> is/are pending in the app	olication.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-23 and 42</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner	·.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the certified copies of the prior application.	eau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language pro						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)				



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DETAILED ACTION

Applicant's arguments filed 6/20/03 have been fully considered but they are not persuasive to overcome the obviousness rejection.

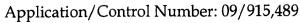
The rejections under 35 U.S.C. 102 have been overcome by applicant's amendment.

Applicant argues that the concurrent oxidation and fixation is unobviously different than the combination of those treatments taught by the two prior art references. The art teaches both methods are useful and in fact useful together- the difference being timing of the steps. Given that both steps are taught and taught to be used in conjunction, it would have been a matter of routine experimentation to optimize the times of application of the processes in the absence of evidence to the contrary.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under



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37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 42, 2-20 & 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al(5697972) and McIlroy et al(6093530).

Kim et al(see e.g. Example 2) and McIlroy et al(Col 3, 50-59) teach the oxidative fixation of collagenous tissue alone or in combination with glutaraldehyde fixation.

The prior art clearly teaches that biological proteins such as collagen, fibrin and keratin can be oxidatively cross-linked and that doing so will fix tissue containing said proteins. As the references clearly indicate that the various proportions and amounts of the ingredients used in the claimed method are result effective variables, they would be routinely optimized by one of ordinary skill in the art in practicing the invention disclosed by those references.

It is a well established proposition of patent law that no patentable invention resides in combining old ingredients of known characteristics where the results obtained thereby are no more than the additive effect of the ingredients, i.e. as connective tissue can be cross-linked with glutaraldeyde or oxidatively, using both together would have been obvious at the time the invention was made.

Accordingly, the claimed invention was prima facie obvious to one of ordinary skill in the art at the time the invention was made especially in the absence of evidence

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to the contrary.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to L Blaine Lankford whose telephone number is 308-2455. The examiner can normally be reached on Mon-Thu 7:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0196.

L'Blaine Lankford Primary Examiner

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